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	ABSTRACT	ter content is increased from 0.2 to 2.0. alsochtion of CoHe drops off(at 20° and 7 by 6%, at a water content of 5% it drops that, with economics nermitting, the water content of I (in the main scrubber) should exceed 0.2 - 0.3% S. Rosenfelld.	fin nm)
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CIA-RDP86-00513R000617800036-6 Hungary OUTHTREE: ATECHORY 79835 RAKhim., No. 22 1959 No. BS. JOUR. MITTOR ŧ. Part of the MILE RIG. PUB. s atoms grouped in arountic structures. The investigation of the cyclic components of hard bitumens UNSTRACT has shown that the hydrocarbons present in the bitumen from Lishpe and Lobau crudes possess lens aromatic character than the hydrocarbons in the hard bitumen obtained from residues from Nod Lend'el [bransliterated] crude: however, the ring condensation index, which characterizes the number of carbon stons present in the side chains, is lower for the latter hydrocarbons. G. Margolina CARDa 2/2

COUNTRY CATEGORY	Hungary H-27
ABS, JOUR.	RZKhime, No. 22 1959 No. 7983
INST.	Maidegger, E. and Hesp, V. Hungarian Academy of Sciences Investigation of the Composition of Bitumens and Asphalts
ORIG. FUB.	Acra Chim Acad Sci Hung, 15, No 4, 325-337 (1958)
ABSTRACT	The results from an inventigation and calculations made by the authors on and for hard and soft bitumens as well as for coal tar products by the Krevelen method are given; the krevelen method was developed for the analysis of coals and is based on the determination of the sp gr and the elementary composition. It is shown that a direct relationship exists between the molecular weight and the structure of the batumens: the higher the molecular weight, the greater the number of C
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A60. 374.	: Pakham, do. 21 (1989), 20.	H+25
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	With cotalest concentrations (exides of Mo) of over 1 mt 3. The interms concar (minimum yield of parallins) to 20 min, ments in a continuour lanoratory reactor a wixture of H, and M, (70% H ₂) at a prothat the minimum permissible temperature with increasing space velocity of the mass.	Experi- r, using chause of
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ABS. JOUR.: AZMhim., co. 21 190, co. 26351 ABS. JOUR.: AZMhim., co. 26351		CARRORS	Kungany
ORIG. FUR.: Manyar Kem Lapja, 10, No 5-6, 17-180 (1998) Alumnation The condition of Fatty Alconola by Lagi-Prossure ORIG. FUR.: Manyar Kem Lapja, 10, No 5-6, 17-180 (1998) Alumnation The condition from an investigation of the reduction of the alconomy palm per old, bundlewer oil and occount tomperature are presented. The results was captained out in a laboratory tractor of 2-liter tone range 200-350° the optimum temperature approach of any in the pressure in the temperature formal of 2-202 atm mas no effect on the alcohol yield.		ASS. JOUR.	: 82Xhiim., co. 21 1000
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ton of palm per oils tomflower oil and occount to alcorols with hy at high pressures and correct tomperatures are presented. The reactive was carried out in a laboratory reactor of reliter tore range publisher the optimin temperature appears 300°. Marying the pressure in the temperature opens 300°. Marying the pressure in the range fatisfactor, yields of stoomele were accieved.			dyirogenation of Fatty Alconols by Makin Procesure
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HAIDEGGER, E. Newer date on the distillation of a coal-oil mixture. p. 210 (Magyar Kamikusek Janja. Vel. 17, no. 7/8 July/As . 1917, Budapent, Esperry) Nentialy Index of cast European Accessions (MAI) IC. Vol. 7, no. 2,

Hungary/Chemical Technology. Chemical Products and Their Application -- Treatment of solid mineral fuels, I-12

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5448

Abstract: of the coke was reduced to 0.53%. Experiments in which the coal was to coking, have shown that increase in the amount of Fe and Ca compounds present in the coal increases the sulfur content of the coke. Coal it is possible to lower the sulfur content of the coke produced therefrom.

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HAIDEGGER, ERNO

Hungary/Chemical Technology Chemical Products and Their Application -- Treatment of solid mineral fuels, I-12

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5448

Author: Haidegger, Erno

Institution: None

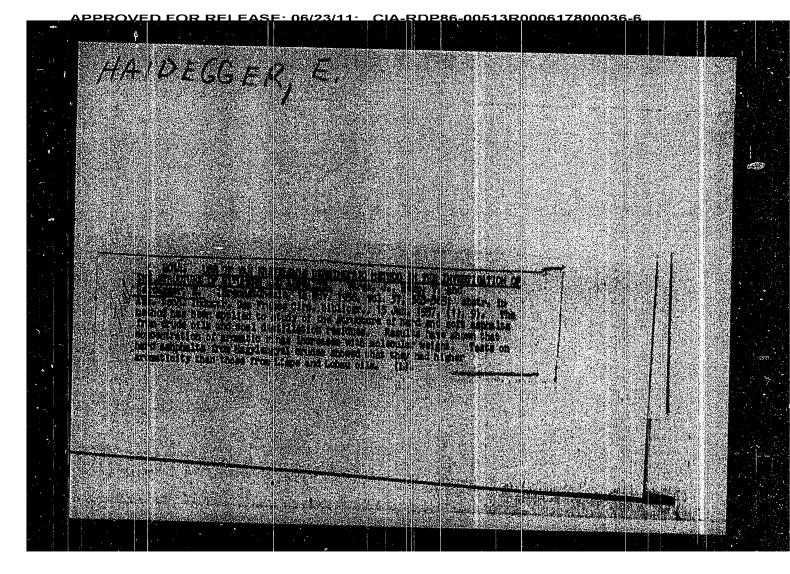
Title: The Possibility of Desulfurization of Hungarian Brown Coal

Original

Publication: Magyar kem. folyoirat, 1956, 62, No 5, 145-148

Abstract: To study the possibility of lowering the S content of Hungarian high-sulfur brown coal and the production of sulfur free coke, an experimental investigation was made of the effect of mineral components on the formation of S-compounds during carbonization of the coal, for which purpose two samples of the coal were treated with 20% solution of HCl and coked at different temperatures. It is shown that removal of the compounds of Fe and Ca decreases the sulfur content of the coke. Thus, for example, if the coke of a given variety of coal contained 3.2% S, after this coal had been treated with acid the sulfur content

Card 1/2



HAIDEGGER, E. Electroslatic preparation of coal. p.534. BANYASZATI LAPOK. Budapest. Vol. 11, no. 9, Sept. 1956. SOURCE: East European Accessions List (EEAL), Library of Congress Vol. 5, No. 12, December 1956

HEIDEGGER, E. Information on synthetic coke. p.90. (Kohaszati Lapok. Eudapest. Vol. 11, no. h, Apr. 1996, Ontode, Vol. 7, no. h.) So: wontbly list of Fret European Recessions (Teal) Fd., Vol. 7, no. 7, tele fore thel.

HEATDEGGER, E. Significance of iron coke in ferrous metallurgy. p. 93. KCHASZATI LAPOK. (Magyar Benyaszati es Kohaszati Egyesulet) Budapest. Vol 11, no. 3, Mar 1956. SOURCE: EEAL, Vol 5, no. 7, July 1956.

HAIDEGGER, E. The problems of power economy in our century, p. 329. Vol. 9, No. 9 Sept. 1996 MAGY ENERGIAGANDANAG. Budapest, Hungary. SOURCE: East European List, (REAL) Library of Congress Vol. 6, No. 1 January 1066.

APPROVED FOR RELEASE RDP86-00513R000617800036 Haidegger, E. 23. Experimental desulphurization of domestic bituminous coals for the production of furnace cake — E. Haideg. 1. 222. (Magyar Rémini Folybiral — Vol. 61, 1935. No. 1, pp. 19-23. 5 figs.) Experimental work was undertaken in order to reduce the sulphur content of domestic bifuminous coals (mined in the Pécs area). Desulphurization of the bituminous coals and cokes used as starting materials was carried out at temperatures ranging from 800 to 900° C and alternatively in a stream of ordinary coal gas (dehydrated and ateam-saturated gas were tried) and ammonia. The efficiency of the desulphurization process was investigated in relation to temperature, particle size and gas volume. The relative amounts of different sulphur derivatives contained in the coals (e.g. sulphides, autphates, pyrites and organic sulphur compounds) were determined during the desulphurization process and it was found that organic sulphur was most easily eliminated in a reducing atmosphers. The most efficient desulphurization was observed when ammonia was used. The highest values of sulphur eliminated by the process amounted to 38.3% for coals and 33.6% for cokes.

THAY DEGGER, KHADA

HUNGARY / Ohomical Technology. Frocessing of Solid Fuels

H-22

Abs Jour

: RZhKhim., No 12, 1958, No 40014

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Title

: Improvement of the Yield and the Quality of the Products

in the Coke-Gas Industry,

Orig Pub

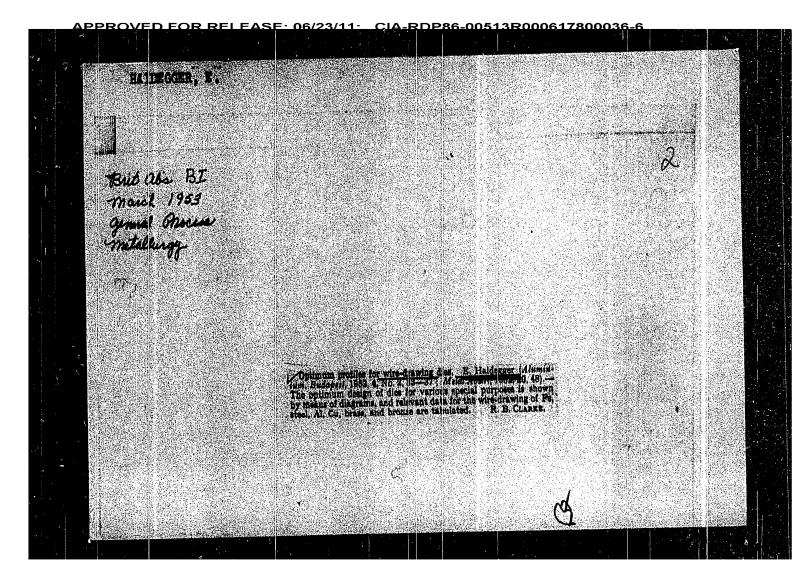
: Magyar Kemik. lapja, 1955, 10, No 8, 244-249

Abstract

: Eighteen library references.

Cord 1/1

SZUCS, Miklos, dr.; HAIDEGGER, Erno; SZEBENYI, Imre Experiment in coking asphaltic crude oil residues with high sulphur content. Koh lap 9 no. 10: 462-466 0 '54. 1. Budapesti Murzaki Egyetem Kemiai Technologiai Tanszek.



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HAIDEGGER, ERNO.

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Electrolytic production of nickel. Bruo Haidegger. Bdnydsz. Kohász. Lebók 83, 571-8(1950).—Crude granulated Ni contg. Ni 96, Cu 2, Fe 1%, and some Si, C, S, and Mn was melted in graphite crucibles, rolled into sheets, and refined by electrolysis with various electrolytes. The current efficiency and the quality of the deposited Ni were poor when electrolyzing a cool ilquid at 125 v. and 70 amp. This is explained by a strong chem. polarization of Ni at room temp., which leads to reactions of higher potentials, such as development of H and O. Best results were obtained at 60°. The material transport in all electrolytes example was effected by NISOs. The addn. of H₂BO, was advantageous, since it stabilized the pH. The optimum

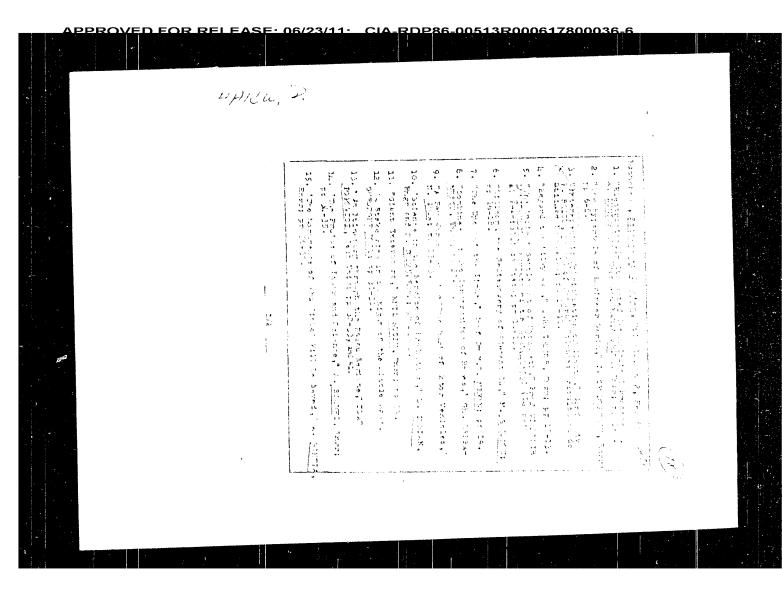
pH should be established empirically. When processing a catholyte at a pH that is too low the Ni deposit contained NiO in the form of black dots, and the cathode had bubbles on the surface. The structure of the deposited Ni layer was finer with a sulfate than with a chloride electrolyte. When cast anodes were used in place of rolled anodes, soln, took place more readily. Metallic contaminations of the anode except Co did not deposit on the cathode with certain precautions. The presence of NiCl, or KCl prevented the passivation of the anode. After processing the spent electrolyte in the anodic area was recovered in 2 phases. The liquid was acrated or treated with Ni(OH), to remove feas hydroxide. Co was then pptd, by addn, of Ni(OI), and NaClO, and the Co(OH), ppt, was removed by filtration. Further processing was required to sep. precious metals, chiefly Pt. Istvan Finály



LOSONCZY, Gyorgy, dr.; PETRAS, Gyozo, dr.; HAIDECKER, Julia, dr. Diagnostic and epidemiological data on Klebsiella infections. Orv. hetil 105 no.10 10 10 Mr. 64. 1. Fovarosi Laszle Korhaz.

HAIDE, Rudolf The railroad shunting engine of the No. 100 type. Elelm ipar 14 no.6:187-189 Je '60. 1. Termenyertekesitesi es Raktarozasi Vallalat.

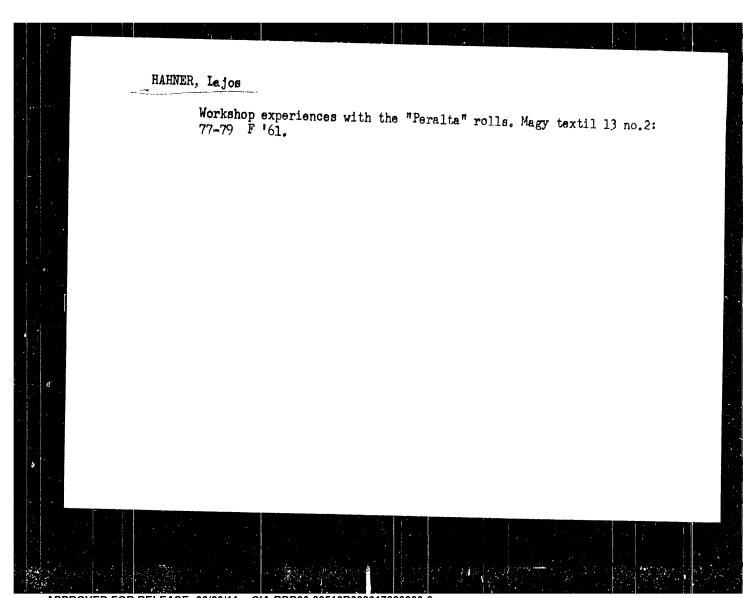
CIA-RDP86-00513R000617800036 HAIDA, L. "Mechanization of the Pressing Process in the Production of V Belts." p. 159, (MECHANISACE, Vol. 2, No. 4, Apr. 1953, Praha, Czechoslovakia) SO: Monthly List of East European Accessions, (EMal), LC, Vol. 4 No. 5, May 1955, Uncl.



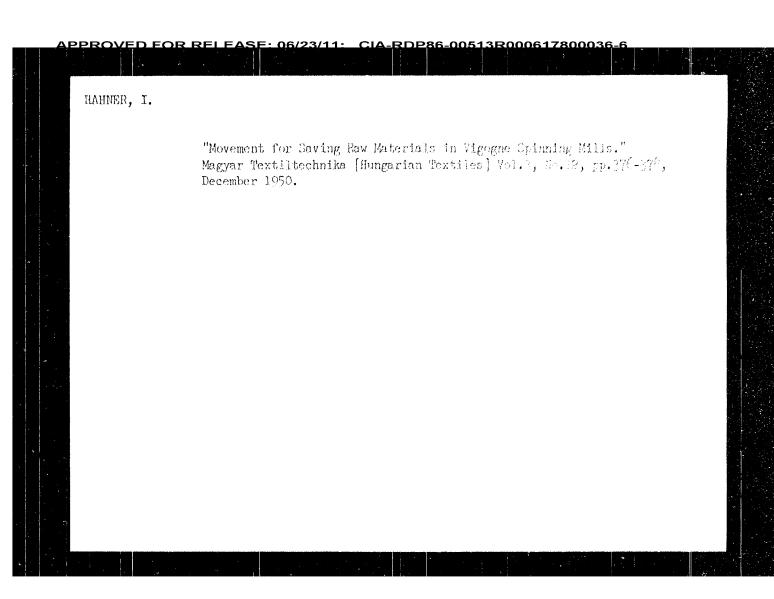
HATCOV, K. H. PA 162179 greater than that of basic furnace. furnace. RUMANIA/Metallurgy - Steel (Contd) nace and vigorously cocled. Shows that formation of dephosphorized slag is possible in electric slag obtained and metal then decarbonized in furused as dephosphorizing material. furnaces. Mixture of slaked lime and coarse ore from steel during normal processing in electric Describes experiments in eliminating phosphorus "Metalurgia" No 2, pp 58-60 With Acid Linings," K. H. Haicov "Dephosphorization of Steel in Electric Furnaces RUMANIA/Metallurgy - Steel Stability of acid furnace Dephosphorization Dephosphorized is 2-2.5 times Mar/Apr 50 Mar/Apr 50 162179

MAYER, Karel; HAICL, Zdenek Congenital spinal abnormalities and their clinical significance. Cesk. pediat. 17 no.5/6:514-517 Je $^{1}62$. 1. Katedra detske chirurgie a ortopedie fakulty detskeho lekarstvi University Karlovy v Praze, vedouci prof. MUDr. 0. Hnevkovsky. (SPINE abnorm)

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L 41809-66 EWP(j) SOURCE CODE: PO/0099/66/040/003/0411/0420 ACC NR. AP6031693 AUTHOR: Hahn, Witold E.; Sokolowska, Alicja ORG: Department of Organic Chemistry, University, Lodz (Katedra Chemii Organicznej Uniwersytetu) TITIE: Synthesis of aminoalcohols. VIII. Derivatives of beta-mercapto-alphaarylhydrazono-propane SOURCE: Roczniki chemii-annales societatis chimicae polonorum, v. 40, no. 3, 1966, 411-420 TOPIC TAGS: organic synthetic process, sulfone, sulphinic acid, mercaptan, condensation reaction, formaldehyde ABSTRACT: B-Arylhydrazone- a-ketosulphides or sulphones have been obtained in the reaction of mercaptanes for sulphinic acids with Mannich bases synthesized from the ω-arylhydrazone derivatives of glyoxal. Direct three-component condensation of formaldehyde, CH and SH acidic compounds yielded the same compounds. The sulphides were oxidized to sulphoxides and sulphones. Orig. art. has: 6 figures and 2 tables. [Based on authors' Eng. abst.] [JPRS: 36,002] SUB CODE: 07 / SUBM DATE: 20Apr65 / ORIG REF: 003 / OTH REF: 016 Card 1/1 0093

<u> APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800036-6</u>

L 07003-67 EWP(j) RM

ACC NR: AP7001015

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SOURCE CODE: PO/0099/66/040/001/0149/0152

AUTHOR: Hahn, Witold E.; Epsztajn, Jan; Olejniczak, Bogdan; and Stasiak, Stanisiaw

ORG: Department of Organic Chemistry University (Katedra Chemii Organicznej Universytetu), Lodz.

TITLE: Synthesis and reactions of 2,6-dialkylpyridine analogues

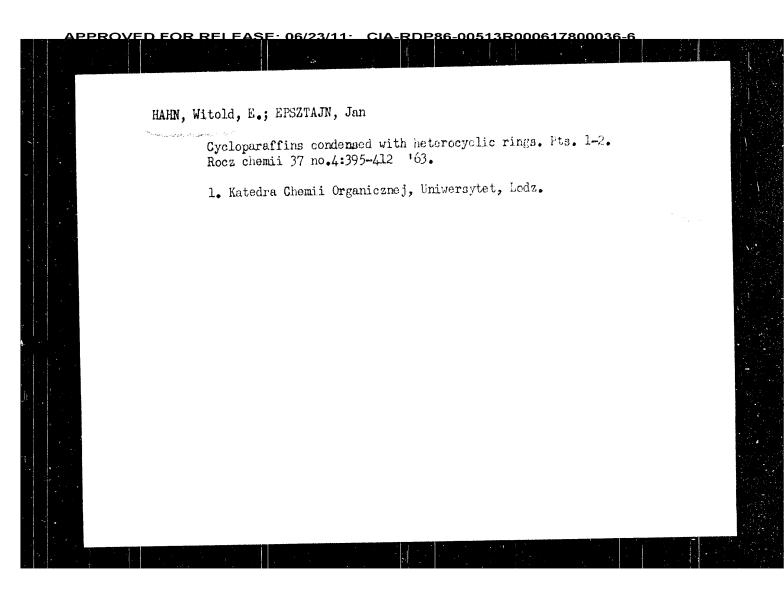
SOURCE: Roczniki chemii-annales societatis chimicae polonorum, v. 40, no. 1, 1966, 149-152

TOPIC TAGS: heterocyclic base compound, piridine, chemical synthesis, chemical reaction

ABSTRACT: Continuation of work on the synthesis and properties of N-heterocyclic compounds condensed in the ortho position with cycloparaffins is reported. Of particular interest were compounds having an alicyclic ring condensed in the 2 and 3 positions, and an alkyl in position 6 in pyridine. Systems having two alicyclic rings condensed in positions 2, 3 and 5,6 with pyridine were also investigated. Orig. art. has: 2 tables. [JPRS: 35,397]

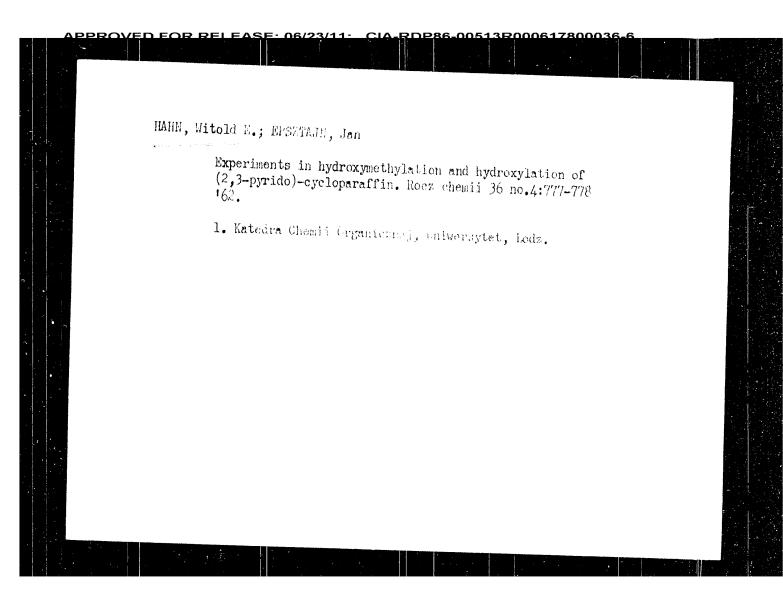
SUB CODE: 07 / SUBM DATE: 09Sep65 / ORIG REF: 001 / SOV REF: 001 / OTH REF: 004

HAHN, Witold E.; MADEJA-KOTKOWSKA, Zofia Studies on products of reduction of some hydroxycarbonyl derivatives of 1,2-benzo- Δ 1 -cycloheptene. Rocz chemii 37 no. 7/8:915-917 163. 1. Department of Organic Chemistry, University, Lodz.



HAHN, Witold E.; EPSZTAJN, Jan New method for the synthesis of $5_06_07_08$ -tetrahydroquinoline. Rocz chemii 37 no.1:109-112 963 . 1. Department of Organic Chemistry, University, Lodz.

HAHN, Witold E.; BARTNIK, Romuald; EFSCTASH, Jan Utilization of the Mannich reaction for the synthesis of heterocyclic systems. Pt.4. Rocz chemii 36 no.11:1645-1654 1. Katedra Chemii Organicznej, Uniwersytet, Lodz.



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The use of the Mannich reaction...

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CH₃OH and 2 ml concentrated HCl are then added to the residue (iving IVt hydrochloride, $C_{17}H_{19}N_3O \cdot HCl$, yield 77%, m.p. 158-160°C (decomposition; from CH₃OH). In the same way IVj hydrochloride, $C_{22}H_{21}N_3O \cdot HCl$, is produced acetone-alcohol 10:1). A mixture of 0.01 moles V and 0.005 moles celebrated in 50 ml toluene is boiled for 10 hrs in a N_2 atmosphere, the solvent is removed by vacuum distillation, producing VII, $C_{37}H_{33}N_5O_2$, yield hydrochloride, 0.3 g Na_2CO_3 , 0.3 ml 37% CH₂O and 10 ml CH₃OH is heated for 1 hr, cooled, then 3 ml water are added, the product is III ($R = C_6H_5$, 0.001 moles IVj, 0.2 g Na_2CO_3 and 0.2 ml 37% CH₂O in 5 ml CH₃OH is heated for 1/2 hr, producing IIIj. [Abstracter's note: Complete translation.]

Card 5/5

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The use of the Mannich reaction...

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50% CH_3OH); g, 1.5, 20, $\text{C}_{17}\text{H}_{17}\text{N}_3\text{C}$, 60, 119-121 (from CH_3OH); h, 1, 20, $\text{C}_{17}\text{H}_{17}\text{N}_3\text{O}$, 80, 101-103 (from 80% CH_3OH); k, 1, 40, $\text{C}_{22}\text{H}_{25}\text{N}_3\text{O}$, 70, 101.5-102.5 (from CH_3OH); l, 1, 30, $\text{C}_{22}\text{H}_{19}\text{N}_3\text{O}$, 65, 126-128 (from CH_3OH); m, 1, 160, $\text{C}_{18}\text{H}_{17}\text{N}_3\text{O}_3$, 60, 231-233 (from alcohol); n, 1.5, 120, $\text{C}_{18}\text{H}_{17}\text{N}_3\text{O}_3$, 65, 239-241 (from 80% CH_3COOH); o, 1.5, 50, $\text{C}_{21}\text{H}_{19}\text{N}_3\text{O}$, 70, 160-161 (from acetone); p, 1.5, 25, $\text{C}_{13}\text{H}_{17}\text{N}_3\text{O}_2$, 85, 92.5-93.5 (from cyclohexane); q, 3, 100, $\text{C}_{17}\text{H}_{16}\text{N}_4\text{O}_3$, 48, 149-151 (from CH_3OH); r, 5, 100, $\text{C}_{12}\text{H}_{12}\text{N}_4\text{O}_3$, 35, 150-152 (from CH_3OH); s, 5, 100, $\text{C}_{14}\text{H}_{18}\text{N}_3\text{O}_3$, 45, 121-122 (from CH_3OH). A mixture of 0.02 moles Ia, 0.025 moles 37% CH_2O and 0.022 moles $\text{C}_6\text{H}_5\text{NHC}_2\text{H}_5$ in 50 ml alcohol is boiled for 5 hrs, then cooled and the product is VIII, $\text{C}_{18}\text{H}_{21}\text{N}_3\text{O}$, m.p. 205-206.5°C (from CH_3OH). A mixture of 0.02 moles VI and 0.04 moles $\text{C}_6\text{H}_5\text{CH}_2\text{NH}_2$ in 80 ml absolute toluene is boiled for 8 hrs in a N₂ atmosphere, the solvent is removed by vacuum distillation, and 30 ml Card 4/5

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The use of the Mannich reaction ...

S/081/62/000/023/041/120 B166/B101

2-phenylhydrazone of 1-ethylphenylaminobutada-2,3-one (VIII) alone. To a mixture of 0.02 moles 1 (R = Ar = C_6H_5) and 0.044 moles 37% CH_2O in 40 ml alcohol are added 0.002 moles $C_6H_5CH_2NH_2$, this is heated for 1 hr and after 24 hrs IIIj, $C_{23}H_{21}N_3O$ is precipitated, yield 75%, m.p. 95-96°C (from CH_3OH); the hydrochlorido has the m.p. $190-192^{OC}$ (from alcohol). III are obtained in the same way (the following gives the substance, the reaction time in hrs, the quantity of alcohol in ml, the gross formula, the yield as a % and the melting point in OC): a, 1, 20, $C_{12}H_{16}N_3O$, 82, 80-90 [iodomethylate, $C_{13}H_{18}N_3OI$, m.p. $208-210^{OC}$ (from CH_3OH); iodoethylate, $C_{14}H_{20}N_3OI$, m.p. $186-189^{OC}$ (from acetone)]; b, 1, 20, $C_{13}H_{17}N_3O$, 78, 52-53 (from 70% CH_3OH) [iodomethylate, $C_{14}H_{20}N_3OI$, m.p. $186-188^{OC}$ (from acetone)]; c, 1, 20, $C_{14}H_{19}N_3O$, 75, 79-80.5 (from 80% CH_3OH); d, 1, 20, $C_{14}H_{19}N_3O$, 90, 64-65 (from 60% CH_3OH); e (the hydrochloride), 1, 25, $C_{15}H_{21}N_3O$ -HCl, 70, 150-152)from benzene); f, 1, 25, $C_{14}H_{17}N_3O$, 65, 43-44 (from CARM)

The use of the Mannich reaction...

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R! = cyclohexyl, R" = $C_6H_5C_0$; (1) R = R! = C_6H_5 , R" = $C_6H_5C_0$; (m) R = $C_6H_5C_0$; (n) R = C_6H_5

5/081/62/000/023/041/120 B166/B101

AUTHOR:

Hahn, Witold E.

TITLE:

The use of the Mannich reaction for synthesizing heterocyclic systems. I. 2-aryl-6-acyl-2, 5, 4,5-tetrahydro-1, 2,4-

triazine derivatives

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 23, 1962, 299-300, abstract 23Zh242 (Roczn. chem., v. 36, no. 2, 1962, 227-234 [Pol.; summaries in Russ., Eng., and Ger.])

TEXT: Condensation of RCOCH=NNHAr (1) with $R^{1}NH_{2}$ (11) and $CH_{2}O$ gives 2-R-4-R'-6-R"-2,3,4,5-tetrahydro-1,2,4-triazines (IIIa-s, where (a) $R = C_6^{H_5}$, $R' = CH_3$, $R'' = CH_3^{CO}$; (b) $R = C_6^{H_5}$, $R' = C_2^{H_5}$, $R'' = CH_3^{CO}$;

(e) $R = C_6H_5$, $R' = C_3H_7$, $R'' = CH_3CO$; (d) $R = C_6H_5$, $R' = iso-C_3H_7$. $R'' = CH_3CO$; (e) $R = C_6H_5$, $R' = C_4H_9$, $R'' = CH_3CO$; (f) $R = C_6H_5$, R' = ally1,

 $R'' = CH_3^2CO$; (g) $R = R' = C_6^{H_5}$, $R'' = CH_3^2CO$; (h) $R = C_6^{H_5}$, $R' = CH_3$, $R'' = C_6H_5CO$; (j) $R = C_6H_5$, $R' = C_6H_5CH_2$, $R'' = C_6H_5CO$; (k) $R = C_6H_5$, Card 1/5

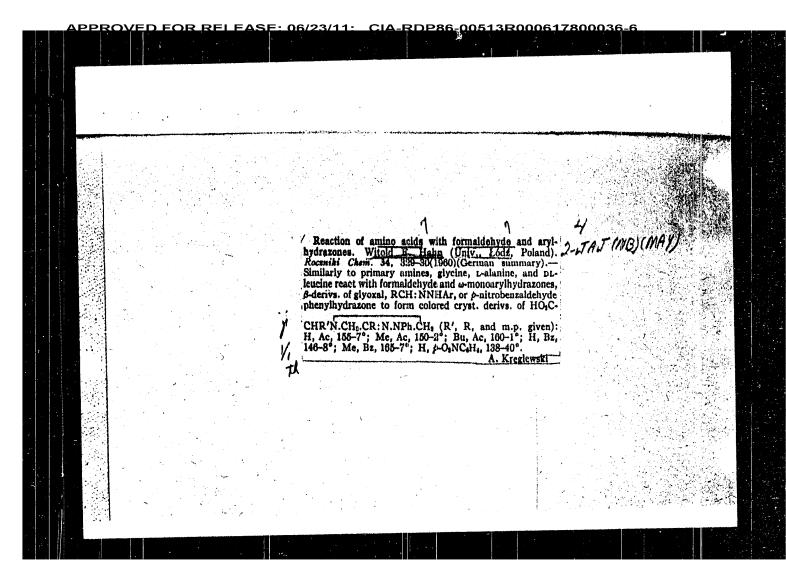
HAHN, W.E.; TOMCZYK, D. The reactions of 2^{\prime} , 3- and 3^{\prime} , 4^{\prime} -cycloalkenequinoline derivatives. Pt.1. Acta chim 8:61-67 '62. 1. Department of Organic Chemistry, University, Lodz. Presented by W.E. Hahn.

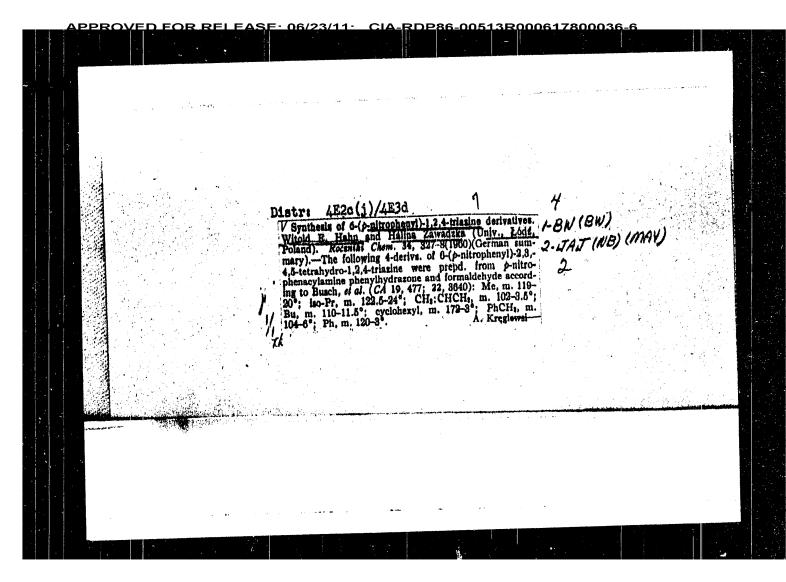
HAHN, W.E.; WOJCIECHOWSKI, L. Reactions of the dimercaptomaleic acid derivatives. Pt.l. Acta chim 8:55-59 '62. 1. Department of Organic Chemistry, University, Lodz, and Institute of Organic Industry, Section Zgierz. Presented by W.E. Hahn. HAHN, W.E.; WEGLEWSKI, J. Synthesis of aminoalcohols. Pt.6. Acta chim 8:45-54 162. 1. Department of Organic Chemistry, University, Lodz. Presented by W. E. Hahn.

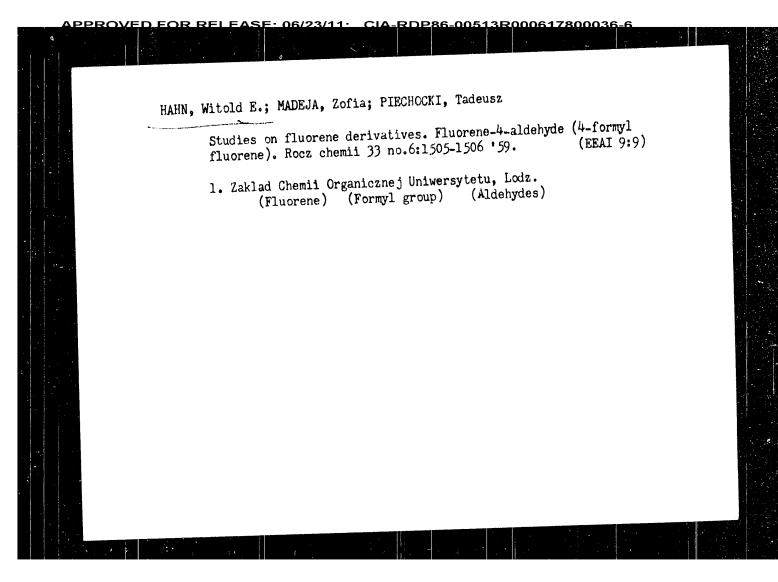
HAHN, W.E. Cyanoathylation of hydrazine derivatives. Pt.1. Acta chim 8:37-43 '62. 1. Department of Organic Chemistry, University, Lodz. Presented by W. Hahn.

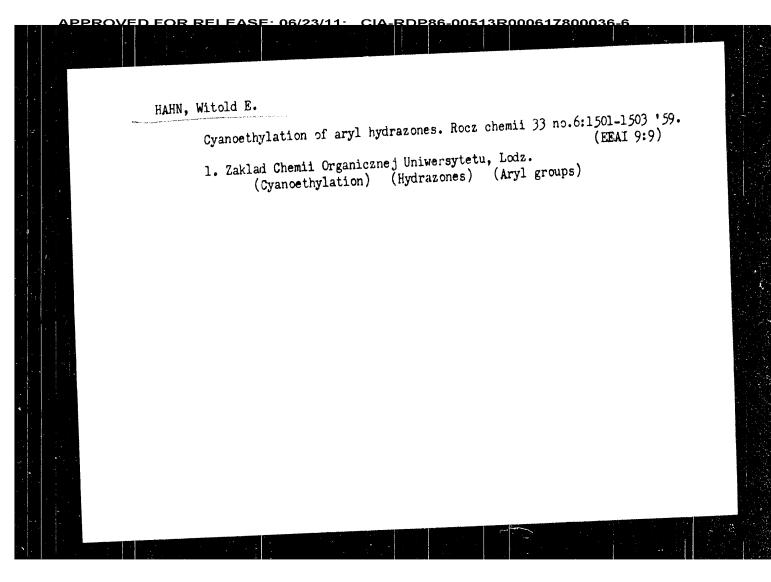
CHRZASZCZEWSKA, A.; HAHN, W.E.; KACZAN, J. Research on the diacylglycerophosphoric acids. Pt.3. Acta chim 8:29-35 162. 1. Department of Organic Chemistry, University, Lodz. Presented by A. Chrzaszczewska.

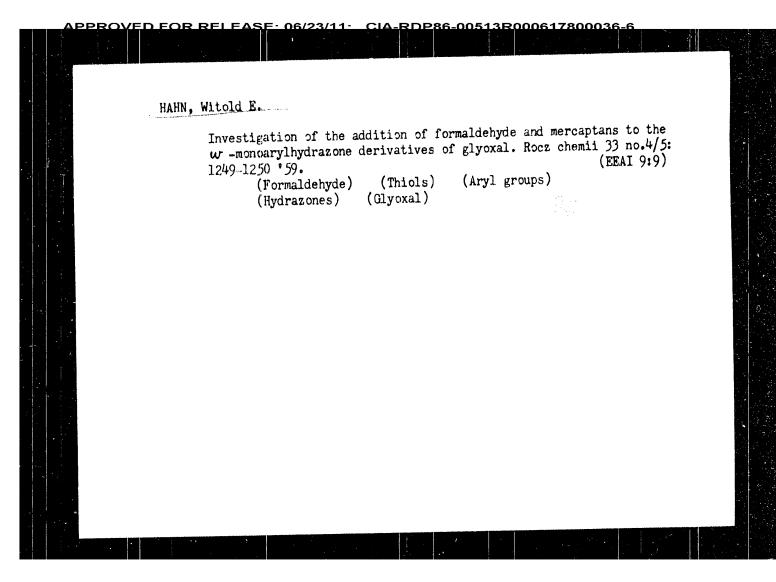
HAHN, Witold E.; EPSZTAJW, Jan Utilization of the Mannich reaction for the synthesis of heterocyclinical systems. II. Some derivatives of (-2,3,4,5-tetrabydro-1,2,4-triazine-4) - acetic acids. Rocz chemii 35 no.4:907-916 '61. 1. Katedra Chemii Organicznej, Uniwersytet, Lodz.











HAHN, Witold E. Reactions between ω -monoarylhydrazone derivatives of glyoxal, formaldehyde, and primary amines. Rocz chemii 33 no.4/5:1245-1247 (EEAI 9:9) 159. 1. Zaklad Chemii Organicznej Uniwersytetu, Lodz (Aryl groups) (Hydrazones) (Glyoxal) (Formaldehyde) (Amines)

SUSZKO, J.; HAHN, W. On the construction of benzocycloheptene. Bul Ac Pol chim 7 no.5: 279-283 °59. (EEAI 9:9) 1. Zaklad Chemii Organicznej, Uniwersytet im. A.Mickiewicza, (Benzocycloheptene)

P/012/59/004/03/13/020 Synthesis of Aminoalcohols IV. Reaction Products of Omega-Monoarylhydrazones of Glyoxal Derivatives With Formaldehyde and Amines ASSOCIATION: Katedra Chemii Organicznej, Uniwersytetu Łódzkiego (Lodz University, Department of Organic Chemistry) PRESENTED: January 16, 1959 Card 2/2

P/012/59/004/03/13/020

AUTHOR:

Hahn, W.E.

TITLE:

Synthesis of Aminoalcohols IV. Reaction Products of Omega-Monoarylhydrazones of Glyoxal Derivatives With Formaldehyde and

Amines 1

PERIODICAL: Societas Scientiarum Lodziensis Acta Chimica, 1959, Vol 4.

pp 117 - 130

The subject of the investigations was to carry out the addition TEXT: reactions between the formaldehyde and primary amines and between the secondary mono- and diamines and the series of omega-monophenylhydrazone derivatives of phenyl- and methylglyoxal. Similar investigations were carried out by other scientists as well, but only with secondary monoamines. As the result of experimental series described in detail in this article, several new compounds were obtained: they were derivatives of 2-aryl-4-alkyl-6acyl-2, 3, 4, 5-tetrahydro-1, 2, 4-triazine. These compounds are formed with a good output and they crystallize easily. They were not described yet in chemical-scientific literature. There are 2 tables and 12 references: 5 German, 3 English and 4 Polish.

Card 1/2

P/012/59/004/03/12/020

Synthesis of Aminoalcohols III. Investigations of the Influence of Substituents in Phenylhydrazone Ring Upon Addition Reaction of Formaldehyde With Omega-Monoarylhydrazones of Phenylglyoxal

Italian.

ASSOCIATION: Katedra Chemii Organicznej Uniwersytetu Lodzkiego (Lodz University, Department of Organic Chemistry)

PRESENTED: January 16, 1959

Card 2/2

P/012/59/004/03/12/020

AUTHOR:

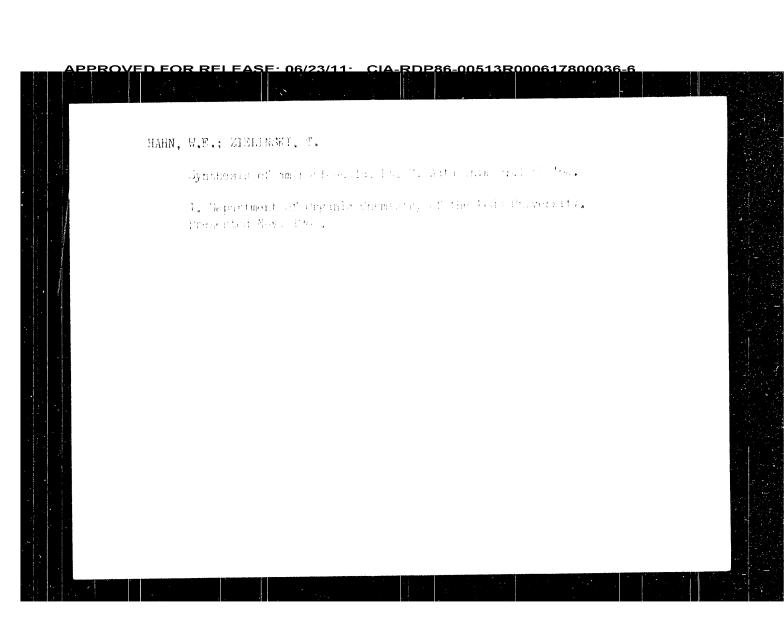
Hahn, W.E.

Synthesis of Aminoalcohols III. Investigations of the Influence of Substituents in Phenylhydrazone Ring Upon Addition Reaction of Formaldehyde With Omega-Monoarylhydrazones of Phenylglyoxal TITLE:

PERIODICAL: Societas Scientiarum Lodziensis Acta Chimica, 1959, Vol 4, pp 101 - 115

In connection with investigations carried out by the author, concerning the hydroxymethylation reaction of omega-monoarylhydrazones of glyoxal derivatives (Refs. 1, 2, 3), the author obtained several compounds of omega-monoarylohydrazones of phenylglyoxal. These compounds were not yet described in chemical-scientific literature available in Poland. To these compounds formaldehyde was added in the presence of an alkaline catalyst and two new types of compounds were obtained: D-derivatives of alpha arylazo-beta-hydroxy-propiophenone and B-derivatives of 1.5-diphenyl-2, 4bis-(arylazo)-pentadione 1, 5. Further, the author lists main properties of these compounds and describes in details the course of his experiments. There are 2 tables and 13 references: 3 Polish, 6 German, 3 English and 1

card 1/2



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800036-6

P/012/59/004/03/10/020

AUTHORS: Russocki, M.; Chrząszczewska, A.; Slawiński, T.; Hahn, W E.

TITLE: Synthesis of 1, 6, 8, 2, 4, 6 Hexahydroxyphenylfluorone

PERIODICAL: Societas Scientiarum Lodziensis Acta Chimica, 1959. Vol 4 pp 90 - 93

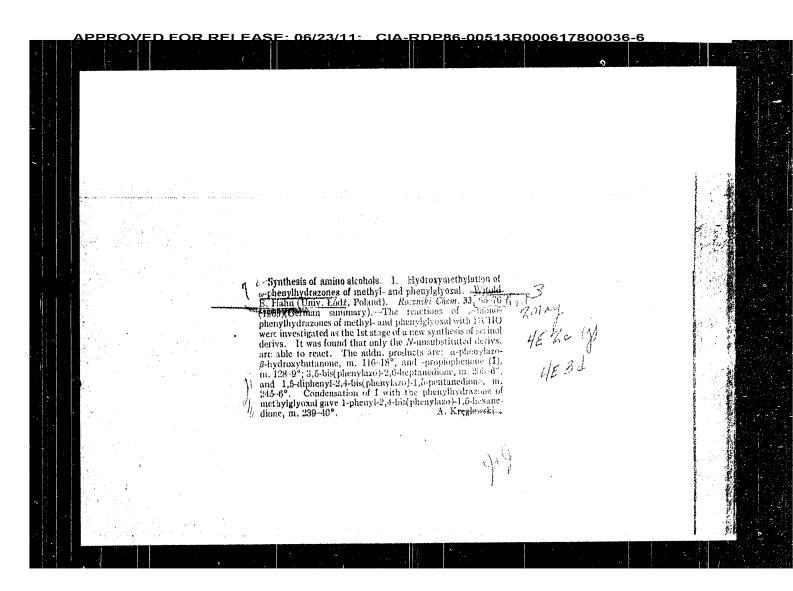
TEXT: The scope of the investigation described in this article was the synthesis of a hitherto not known symmetrical hexahydroxyphenylfluorene in which all orto positions, as regards the central carbon, are filled with hydroxy groups. This goal was achieved by condensation of phloroglucine aldehyde with phloroglucine in a classical way. The condensation was carried out by heating these compounds in 50%-alcohol, acidulated with H₂SO₄ in the atmosphere of air or carbon dioxide. The output was between 48.66%. The same product, but with lower output and purity, was obtained by condensation in concentrated sulphuric acid. There are 4 references. ? German and ? English.

ASSOCIATION: Katedra Chemii Organicznej Uniwersytetu Łódzkiego (Lodz Uni-

versity, Department of Organic Chemistry)

PRESENTED: March 14, 1959

Card 1/1



0-2 SCHEPPR! : Feland CATAGORY : RZKhim., No. /9 1959, No. (7880 ABS. JOUR. ROFFUA ICT. group. oald, My. : ASSTRACT : has a thermodynamically more stable chairto a Course loc of the epolohoptone ring. The Course promps are in ris-I in an equatorial conformation which is ununaformed have in axial in V. while in trum-I they are an equatorial-Tylel conformation, Selting points in °C, and [St [D galues (temperature in 90), of the salts of cis-1 and trans-I with hard sits, are reported as follows: quining salt, 104-106 and 104-10, - 120.3(14) and - 100.6(15); cinclentaine sult, 126-161 and 135-140, - 77.7(16) and - 75.3(16); practice posit, 55-104 (all from acetome) and 25.3(16). Spatial models are shown for cis- and trans-1, and for V. n. Topshiteyin. GARD: 5/5

3-3 COUNTRY : Poland CATEGORY AB3. JOUR. : AZIIbim., 00. 19, 1950, 20. (7880 $M^{\bullet}: \mathcal{M}_{\mathbb{C}}$ This oare. PUB. : ABSPRACT : the approlysis of which gives again the confidence of circles to trans-I is come to a confidence of circles to trans-I is come to a confidence of circles to trans-I is come to a confidence of circles to trans-I is come to a confidence of circles to trans-I is come to a confidence of circles to trans-I is come to a confidence of circles to trans-I is confidence of circles to tr representative above 100%, Optical properties of the arewe miguted actor prove the stereoclemical equivalence of positions 4 and 6 in 1,2-ocuse- Δ 1-cyclohe; time (VI) and, consequently, the presence of a plane of spacetry which extends through 5(5), the micole of the double bond shared by the bicyclic system, and the micole of the benzene rick. Distance in relation of the cis-1, trans-1, and the blacks in relation of the cis-1. og since solw-carboxy-1,3 joins, taking into account the clipter stability of cisel and the properties of 4,6-cubstiunled derivatives of VI, give reason for assuming that I CARD: 4/5

300 COUNTRAI : Folund CATHIORY : RZKhim., No. 14, 1059, Fo. (7880 ASO. JOUR. KOLTUA INST. ORIG. PUB. : absolute CH,OH + condensisted happy () hours ABBTRACT 1000), yield 85%, MP 45-560 (from Chyon), and also over the ai-acid-ctloride of cis-1, with subsequent tre the st with absolute CH3CH. From the di-acid-chloride of cis-1 was sotained the dismillide, NP 352-3630 (from arcohol). Clu-1 is optically inactive and, probably, is a resc-compound. The less stuble trans-I was beparated, over the quinine built, into (+)-trans-I, KF 208-2080, [& 710 + 46.10, and the (-)-trans-I, MF 208-2090, [& 7140 - 46.70; quinche sale of (-)-trans-I, MF 111-1130 (from 50% alcohol), [& 7160 - 138.3° (all [X]D were determined in absolute alcohol with c 1). (Ch3CO)20 and trans-I yield the cis-adductive. GARD: 3/5

APPROVED FOR RELEASE: 06/23/11: CJA-RDP86-00513R000617800036-6

CATEGORY: Poland Gra

ABS. JOUR.: AZKhim., Bo. /9, 1950, Bo. 67880

TITLE

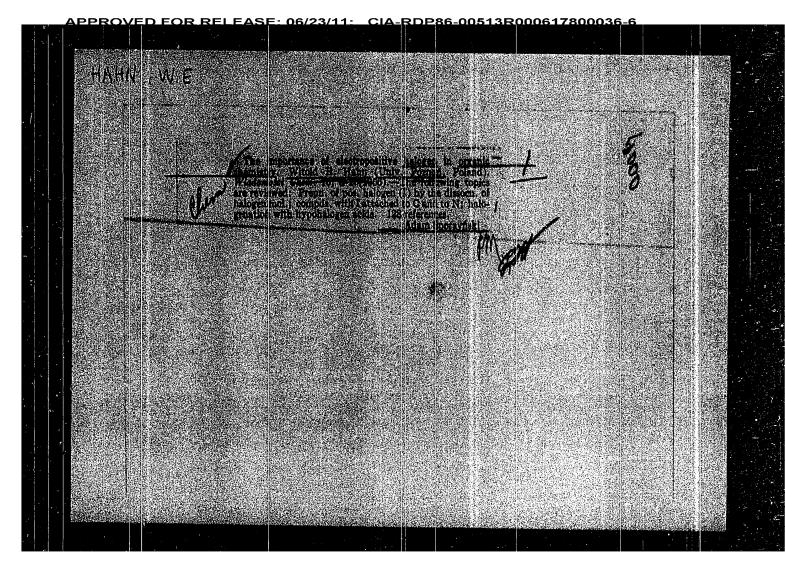
ORIG. PUB. :

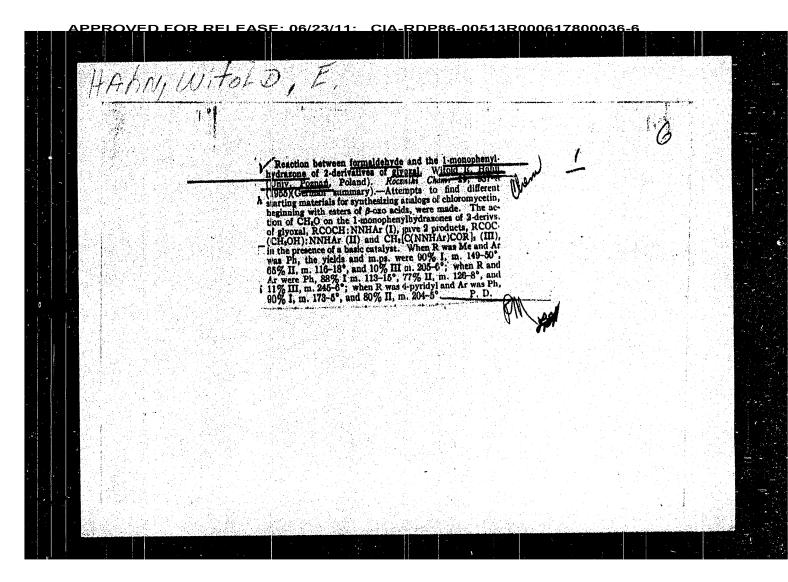
ADDRACT: by saponification, to the corresponding or to, 19 500-jals (all from alcohol), which was reduced over a letter Ni (& hours, 50-90°; 1 hour, 100°; readed with redeentrated hCl) to I, vield 88-95%. The I thus obtained is a mixture of cis- and trans-isomers. Fractional crystallization from alcohol yielded optically inactive cis-1, NF 272-27%: from the mother liquor was isolated trans-1, NP 197-198° (from 10% alcohol, then from water), by attion of (CH₃CO)₂O or CH₃COC1 on I (4 hours, 100°) was notelined the anhydrice of cis-I (V), NF 168-169° (from absolute beazene), the hydrolysis of which yields cis-I. The almethylester of cis-I was obtained by treatment of V with

CaRD: 2/5

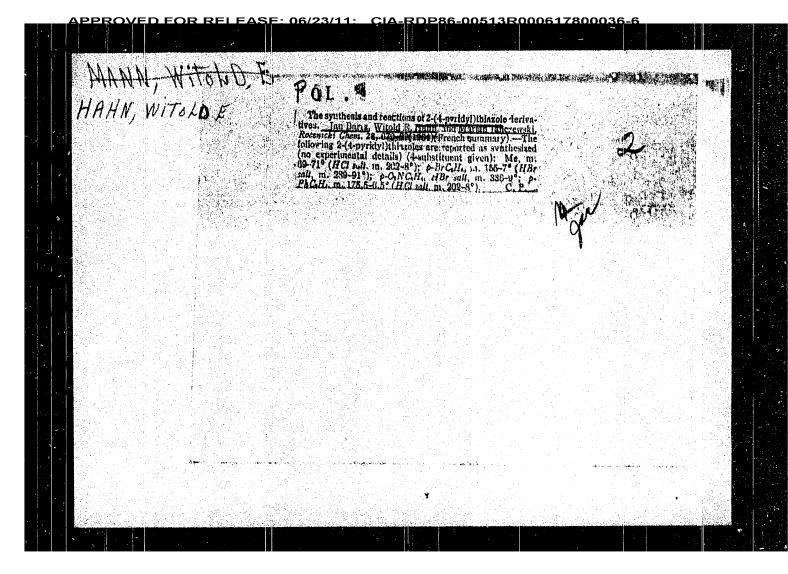
PPROVED, FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800036-6 : lo'ana 1 tayanic Chemistry - Governo Synthesia : R2MORDE., No. 19 1959, No. 178/0 Est. JOHR. : JUSZEO, das Halde, To he ASTIGH * Liver of Y : Townshight con of the otructure of section Cyclobratichu. 0.10. PDE. : Moezo, Cien., 1958, 30, No. 9, 1973-107 Appropriate : 1,2-Benzo- Δ 1-typhologicum-k,6-dimer alayiba and (a) was symbolized as follows. The alethy become of while Δ Deyclonepters-3,7-diome-4,6-dicarboxylic dold per rarea according to Dickman, out using Basell late of Colyoda, (yield of hi, 30-15m, 11 22-6 6) wis the control of the control of Schot, within 10 hours at 10 to the control of the glocular Chydron of Schot, within 10 hours at 10 to the control of the glocular of the control of the con and in pro Sefe yielded the stattyl ester of Livebounder (s), s, t-cyclehentatriene-b, (-licarboxylic acid (IV), lood of could IV, 88-52x, NF 55-600. IV was consected, 91 1/3

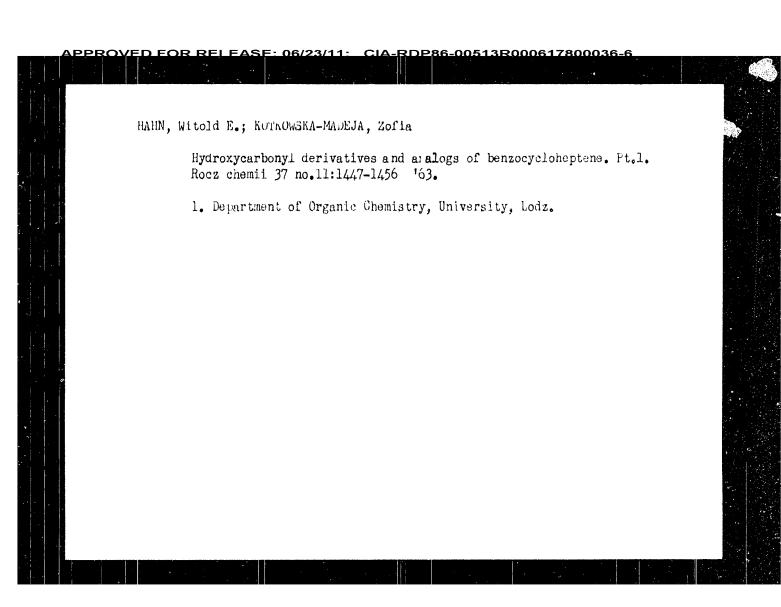
H-25 Poland COUNTRY CATEGORY 1959, No. 72806 ABS. JOUR. : AZKhim., No. : Habn, W. H. AUTHOR : Lodz Scientific Society IMST. : Foam-Forming Properties of the Salts of Aryl-TITLE Succinic Acids. ORIO. PUB. : Joe. scient. lodz. acta chim., 1958, 3, 9-20 ABSTRACT : The possibility was investigated of utilizing as detergents the products of the reaction of fluorene, acenaphthene, and tetrahydronaphthalene, on the one hand, and make to enhydride, on the other, in the presence of benzowl peroxide as a catalyst. Foam forming properties and surface tension of solutions of the salts of the thus synthesized aryl succinic acids were compared, at different ph values, with the corresponding properties of solutions of liquid coap and Merzolyat D. Results of comparison showed the possibility of utilizing anyl succinic acids as detergents in textile and leather industry, in impregnation of word, in flotation processes, etc. -- G. Bonvech. CARD: 1/2

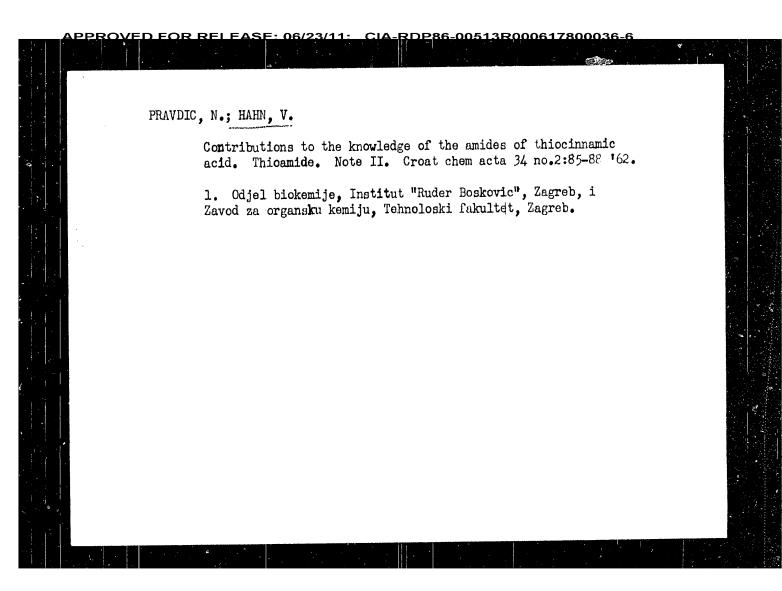




HAHN, W. Diene synthesis of heterocyclic rings. p. 616. WIADOMOSCI CHEMICZNE. (Polskie Towarzystwo Chemiczne) Wroclaw, Poland. Vol. 9, no. 12, Dec. 1955. Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 2, Feb. 1960 Uncl.







KUKOLJA, S.; HAHN, V. Studies on 4-pyrones and 4-pyridones. II. The preparation and rearrangement of 3-allyloxy-4-pyrone. Croat chem acta 33 no.4: 229-233 '61. 1. Laboratory of Organic Chemistry, Faculty of Technology, University of Zagreb, Zagreb, Croatia, Yugoslavia. 2. Clan Redakcionog odbora, "Croatica chemica acta" (for Kukolja).

HAHN, V. (Zagreb); KUKOLJA, S. (Zagreb) Studies on 4-pyrones and 4-pyridones. I. The preparation of 1-aryl-3-hydroxy-4-pyridenes and related compounds. Croat chem acta 33 no.3:137-144 '61. 1. Laboratory of Organic Chemistry, Faculty of Technology, University of Zagreb, Zagreb, Croatia, Yugoslavia. 2. Member of the Editorial Board, "Croatica chemica acta, Arhiv za kemiju" (for Kukolja).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800036-6 YUGOSLAVIA/Organic Chemistry. Synthetic Organic Chemistry. Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74038. NaOH, heated 30 min. at about 100° , cooled, and II is produced, yield 94%, melt. p. 41.5 to 42 $^{\circ}$ (from 80%-ual alcohol). : 7/7 Card

선생님 내가 한 학생들이 나는 내가 가는 것 같아 해야 돼 되는 것 같아.

APPROVED FOR RELEASE: <u>06/23/11: CIA-RDP86-00513R000617800036-6</u>

YUGOSLAVIA/Organic Chemistry. Synthetic Organic Chemistry.

G

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74038.

n²5 = 1.5960, d₂5 = 1.1025); IIIm, 10, -, 58 to 59, 20, 13.4, 75, A, 100, -, 55 to 56 (from petroleum ether); IIIn, 3, -, 127 to 128, 10, 3.3, 40, -, 100, -, 70.5 to 71 (from 80%-ual alcohol); IIIp, 4, -, 128 to 129, 15, 4.1, 45, -, 79, -, 85 to 86 (from 90%-ual alcohol); IIIp, 6,-, 109 to 110, 12, 2.5, 60, -, 96, -, 76 to 77 (from alcohol); IIIq, 5, -, 154 to 156, 10, 2.2, 90, A, 57, -, 138 to 139 (from alcohol). 1 g of Ie is dissolved in 10 ml of 10%-ual KOH, 0.7 g of IV is added, crystallized, and Ir is obtained, yield 44%, melt. p. 129 to 129.5° (from alcohol). 3.5 g of V is added to a cooled solution of 2.03 g of Ie in 12 ml of 10%-ual

Card : 6/7

<u>APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800036-6</u>

YUGOSLAVIA/Organic Chemistry. Synthetic Organic Chemistry.

G

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74038.

benzene + petroleum ester), IIIf, 2, 52, 198 to 200/9, 66 to 67 (from benzene + petroleum ether), 5, 1, 11, 40, A, 88, -, 85 to 85.5 (from benzene + petroleum ether); IIIg; 5, -, 86 to 87, 5, 22, 40, A, 67, -, 46.5 to 47 (from dilute CH₂OH); IIIh, 10, -, 108 to 109, 20, 8.8, 45, A, 85, -, 88 to 89 (from benzen + petroleum ether); IIII, 1, -, 150 to 152, 7.1, 120, A, 84, -, 129.5 to 130 (from dilute alochol); IIIj, 2.17, -, 104 to 105, 5, 0.9, 40, A, 91, -, 129 to 130 (from CH₂OH); IIIk, 10, -, 129 to 130, 20, 7.2, 90, A, 94, -, 80 to 81 (from benzene + petroleum ether); III1, 12,134 to 136/18, -, 140, B; 84, 158 to 163/15; 143: to 144/5, - (liquid,

Card: 5/7

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800036-6

YUGOSLAVIA/Organic Chemistry. Synthetic Organic Chemistry.

Abs Jour: Ref Zhyr-Khimiya, No 22, 1958, 74028.

initial III-s, their amounts in g, boil. p. in C/mm, melt. p. in C, amounts of C H N in ml and of P₂S₅ in g, reaction duration in min., purification method, yield of I in \$\frac{1}{2}\$, its boiling point in C/mm and its melting point in C are enumerated: IIIa, 3, -, 141 to 142, 15, 5.7, 40, B, 84, 160 to 162/15, 130 to 131 (from benzene + alcohol); IIIb, 4, -, 62. to 64, 8, 7.1, 40, -, 153 to 157/18, 70 to 71 (from benzene + petroleum ether); IIIc, 17, 136 to 138/15, 34 to 34, 45, 13.6, 45, B, 84, 155 to 160/16, 148 to 150/11, - (liquid, n D = 1.6236, d = 1.1629); IIId, 5, 111, -, 15, 2.8, 45, B, 98, -, 49 to 50 (from petroleum ether); IIIe, 10, -, 123 to 124, 20, 7.2, 60, A, 86, -, 107 to 108 (from

Card : 4/7

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800036-6

YUGOSLAVIA/Organic Chemistry. Synthetic Organic Chemistry.

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Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74038.

alcohol). 6 g of VI is added to 8.2 g of benzyl-aniline in 30 ml of C H_cN, the mixture is seasoned 12 hours, after which 40 ml of water is added, the mixture is filtered and IIIp is obtained, yield 91%, melt. p. 111 to 112 '(from dilute alcohol). IIIa to IIIq are boiled with F_cS_c in water-free C_cH_cN, cooled, poured out into a 5 to 10-fold amount of water heated to 50 or 60°, seasoned 12 hours and filtered, and Ia to Iq are obtained. If necessary, Ia to Iq are preliminarily dissolved in 8 to 10%-ual NaCH at heating and filtered, and Ia to Iq are separated with 10%-ual HCl (method A), or the reaction mass is extracted with ether, the extract is washed with dilute HCl and distilled in vacuo (method B). In the following the

Card : 3/7

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YUGOSLAVIA/Organic Chemistry. Synthetic Organic Chemistry.

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Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74038.

R' = 4-C)H;OC(H; (Ik); R = R' = C;H; (II); R = R' = H;C(CH;);CH; (Im); R = CH; R' = C;H; (In); R = C;H; (Ip); R = C;H; (Ip); R = R' = C;H; (Iq), and R = C;H; R' = C;H; R' = C;H; (Iq), and R = C;H; R' = C;H; (Ir); And S-methyl-iso-thicanilide of thiopyromucic acid (II) were synthetized with a view to study their biological properties.

In to Iq were prepared of corresponding CCH=CHCH=CCONRR'-s (IIIa to IIIq) and P S, and Ir and II were prepared by the action of C H COC1 (IV) and (CH) SO (V) on Ie. 22.0 g of OCH=CHCH=CCOC1 (VI) is added to 23.2 g of phenetidine in 200 ml of 5; ual NaOH in 20 min.; 1 hour later it is filtered and IIIk is obtained, yield 81; melt. p. 130 to 131° (from dilute

Card : 2/7

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. HAH., V.

YUGOSLAVIA/Organic Chemistry. Synthetic Organic Chemistry.

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74038.

Author: V. Hahn, Z. Stojanac, O. Shchedrov, N. Pravdich-

Sladovich, S. Tomashich, D. Emer.

Inst

: Amides of Thiopyromucic Acid. Thioamides. Report I. Title

Orig Pub: Croat. Chem. acta, 1957, 29, No 3-4, 319-327.

Abstract: OCH=CHCH=CCSNRR' / Ia to Ir, in which R = R' = H (Ia); R = H, R' = CH₃ (Ib); R = H, R' = C₂H₅ (Ic); R = H, $R' = C_{\ell}H_{\ell}CH_{\ell}$ (Id); R = H, $R' = C_{\ell}H_{\ell}$ (Ie); R = H, $R' = 2-CH_{\ell}C_{\ell}H_{\ell}$ (If): R = H, $R' = 3-CH_{\ell}C_{\ell}H_{\ell}$ (Ig); R = H, R' = 4-CH C6H4 (Ih); R = H, R' = 2-CIDH7 (111); R = H, R' = 4-CH3 OCAH4(Ij); R = H, R' =

: 1/7 Card

▲PPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800036-6

YUGOSLAVIA/Organic Chemistry - Synthetic Organic Chemistry.

G-2

Abs Jour Ref Zhur - Khimiya, No 7, 1958, 21472

at 240 to 260°, distilled with steam and I is extracted with water from the residue, yield 63%, melting point 184 to 185° (from alcohol). 10 mmoles of P₂S₅ is added to 10 mmoles of I in 10 mlit of anhydrous C₅H₅N, all is poured out into 50 mlit of water and III is separated (at about 00, 12 hours), yield 84%, melting point 199 to 200° (from benzene). II was prepared of anhydrous V and n-ClC₆H₄NO₂ similarly to I, yield 50%, melting point 188

to 189° (from alcohol); IV was prepared similarly to III, yield 73%, melting point 174 to 175° (from benzene).

Card 2/2

MARCH

YUGOSLAVIA/Organi: Chemistry - Syntheti: Organia Chemistry.

G-2

Abs Jour

Ref Zhur

Khimiya, No 7, 1958, 21472

Author

V. Hahn, N. Prawdie-Sladowle.

Inst

Title

The Preparation of Some 1-(nitrophenyl)-2-pyridones and

-thiopyridones.

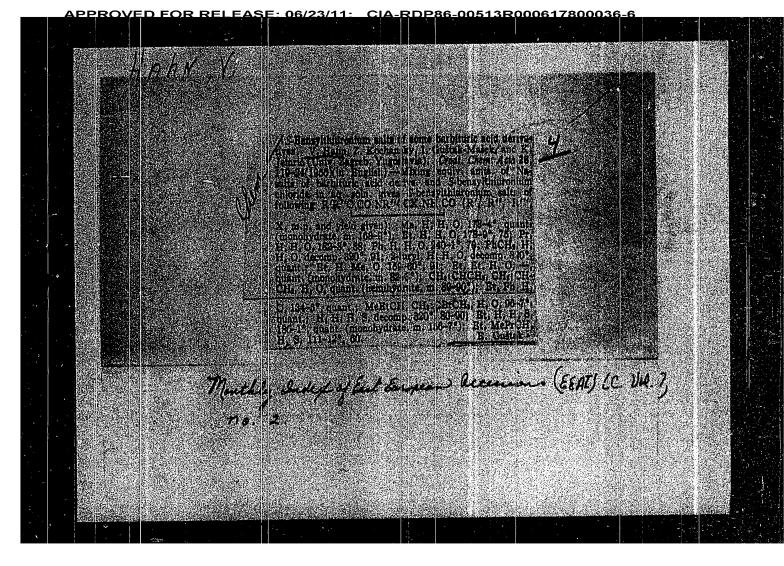
Orig Pub

croat. chem. acta, 1957, 29, No 2, 127-129

Abstract

1.(3'-nitrophenyl)-2-pyridone (I) and 1-(4'-nitrophenyl)--2-pyridone (II) were synthetized and the corresponding 2-thiopyridones (III and IV) were obtained from them. Pyridone-2 is prepared of 0.1 mole of 2-aminopyridine in 100 mlit of 20% wal H₂SO_h by the action of 0.106 mole of NaNO₂, yield 75%, and it is transformed into the K derivative (V) according to Binz and Raeth (Liebigs Ann. Chem., 1931, 489, 107); V is a monohydrate, melting point 269 to 273°. 45 mmoles of anhydrous V, 180 mmole of m-BrC6H4NO2 and 0.3 g of Cu powder are heated 4 hours

Card 1/2



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800036-6

Abs Jour : Ref Zhur - Biol., No 3, 1958, 12718

Author : Stern, P., Misirlije, A., Hahn, V.

Inst : Net given. INST PHARMACOL, SORADEVO.

Title : Chemical Structure and Antileukemic Activity. V.

Certain N-Acyl-urethans.

Orig Pub : Acta pharmac. jugosl., 1956, 6, No 1, 27-32

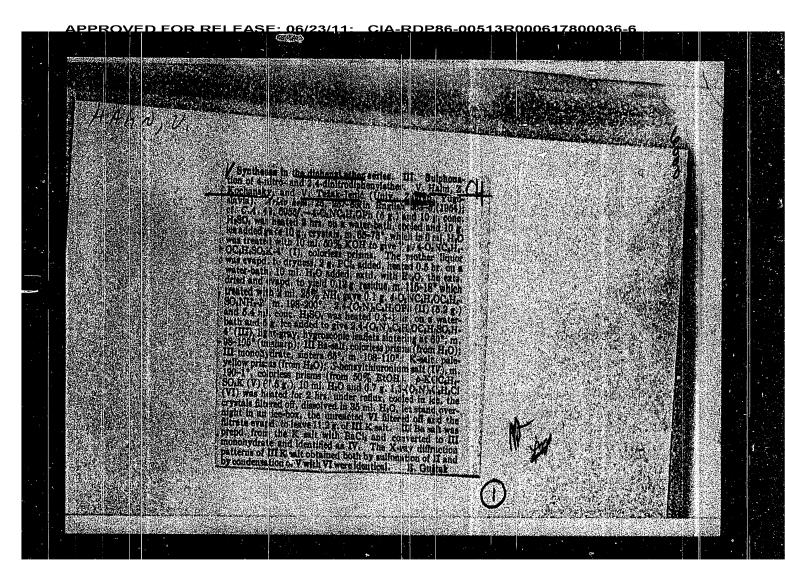
Abstract: A study was made of 4 N-acyl-urethans: N-carbethoxy-succinoamide (I), N-carbethoxysuccindiamide (II), N-carbethoxyshthalimide (III), and N-carbethoxysaccharine

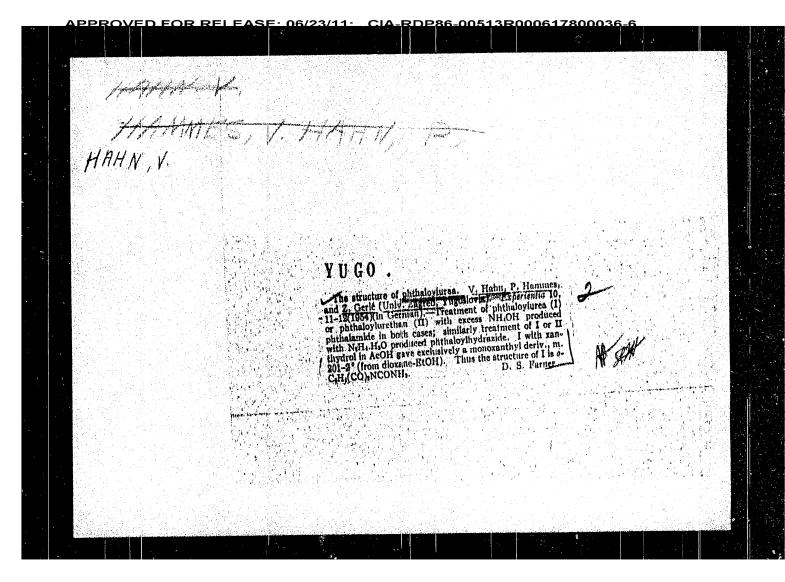
(IV). I, III and IV were obtained by usual methods slightly modified (Heller, G., Jacobsohn, P., Ber., 1921, 54, 1107; Eckenroth, H., Koerppen, G., Ber., 1897, 30, 1265). II was obtained by the action of an excess of a 25% aqueous solution of ammonia upon I. Toxicity of the

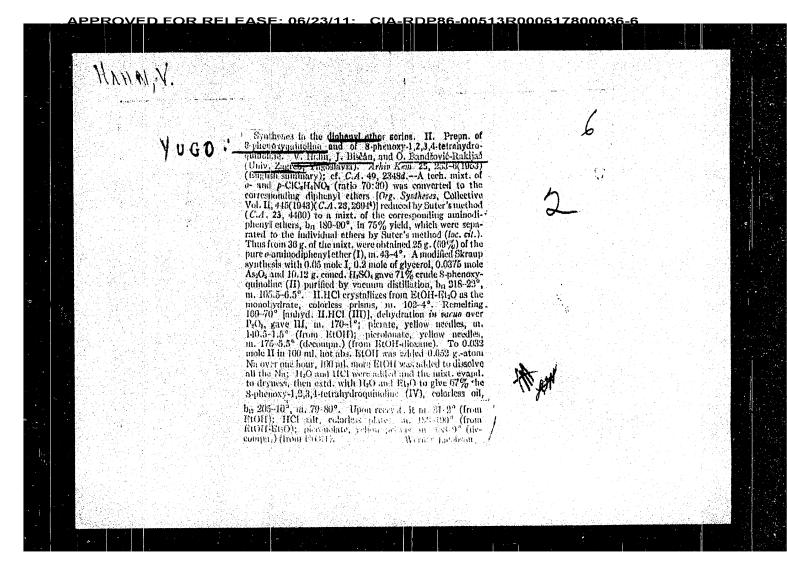
Card 1/2

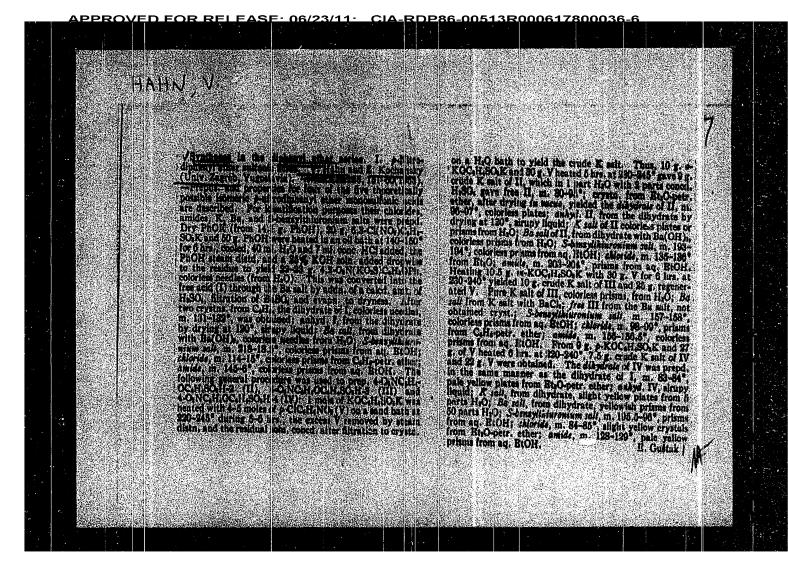
Card 2/2

RDP86-00513R000617800036-6 Nahnju. The bromination of 2-furanilide V. Hahn, Z. Stojanac, and D. Einer (Univ. Zagreb. Yugoshgva). 17840 Kem. 27, 165-7(1900)(in English). It soluted 16.3 g. Br in 5 ml. Office CHCl, was added slowly with stirring to a solute of 0 g. 2-furanilide in 110 ml. CHCl., the mixt. refuxed 40 miu. evapd. In sacun, and the residue dissolved in 22 ml, fitOH and filtered hot to give, after cooling, s.4 g, p-bromoanilide (I) of 5-bromo-2-furoic acid, m. 142-3°, analytical sample, m. 184-5° (from fitOH). A mixt of 2 g. I and 25 ml, coned. HCl was heated 6 hrs. at 150-60° in a scaled tube, the quixt. dild. with 30 ml. H₂O, extd. with fit₁O (no definite product was obtained from fit₂O solu.), the aq. solu. was filtered, excess NaOH added, the mixt, extd. with fit₂O, the fit₂O solu dried, evapd., the residue dissolved in H₂O, filtered hot, NaOH solu, added, to yield p-life filiants. (II). 5-bronzo-2-furoyl chloride (0.3 g.) in 15 ml. C₂H₄ was dropped into 5.2 g. II in 15 ml. C₃H₄N, the mixt, refluxed 30 min., held 12 hrs. at room temp., 15 ml. C₄H₄ and 20 ml. H₂O added, the C₄H₄ layer sepd., washed with 20 ml. H₂O, dried, and evapd., and the residue crystd, from 30 ml. fitOH 40 give 5.8 g. I, m. 153-4°. evapd. In vacuo, and the residue dissolved in 22 ml. BrOH (2)



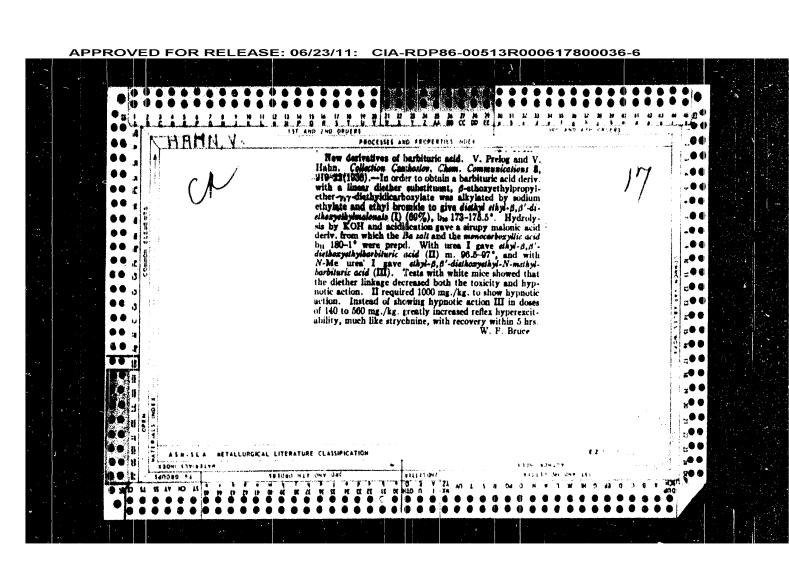






HAHN, V. Yugoslavia (430) Technology on 5-alkyl-5-acyl derivaties of barbituric acid. p. 87, ARHIV ZA KEMIJU, Vol. 20, no. 1-4, 1948. East European Accessions List, Library of Congress, Vol. 1, no. 14, Dec. 1952.. UNCLASSIFIED.

HAHN, V. Yugoslavia (430) Technology The preparation of some quinoline bases with restorative properties. p. 73, Arhiv Za Kemiju, Vol. 20, no. 1-4, 1948. East European Accessions List, Library of Congress, Vol. 1, no. 14, Dec. 1952. UNCLASSIFIED.



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AUTHOR: Hahn, S.

34 B+1

ORG: Department of Radio and Television Equipment (Katedra urzadzen radio-technicznych i telewizyjnych)

TITLE: Theory of circuits with variable complex frequency

SOURCE: Warsaw. Politechnika. Zeszyty naukowe, no. 117, 1965. Elektryka, no. 42, 5-19

TOPIC TAGS: circuit theory, signal frequency, amplitude modulation, resonance system, signal response

AESTRACT: It is shown that the Carson and Fry theory, used for determining the response of linear quadripoles excited by a variable signal frequency, can also be used for determining the response signals of both variable amplitude and frequency because of the introduction of the notion of the instantaneous complex frequency. As an example, the response is determined of the resonance system excited by an amplitude-modulated signal. Orig. art. has: 4 figures and 33 formulas. [Based on author's abstract]

SUB CODE: 20/ SUBM DATE: 02Jan64/ ORIG REF: 001/ OTH REF: 004/

APPROVED FOR RELEASE: 06/23/11: RDP86-00513R000617800036-6 Wilsh, Stefan, does dr sazs; CHACHULSKI, Andrzej, mgr inz., KUNSKI, Rysaard, mgr inr. Translator frequency standard. Przegl telekum 36 (t.e.3). no. 6:161-165 Je 164. 1. Institute of Basic Technical Problems, Polish Academy of Sciences Warsaw.

CHACHULSKI, Andrzej; HAHN, Steelen Analog correlator (12) a magnetic tape memory. Proceed vibr probl 4 no.2:199-207 (46). 1. Department of $Vilmations_p$ Institute of Basic Technical Problems, Polish Academy of Sciences, $Varsaw_o$ Theory of generators with two ... P/019/62/011/001/002/010 pp. 700-719.

ASSOCIATION: Katedra urandzeń radiotechnicznych PW (Department of Radio-Tochnical Appliances of the Warsaw Polytechnic Submitted)

Submitted: February 15, 1961

Fig. 1.

10/43/11: CIA-RDP86-00513R000617800036-6

Theory of generators with two ...

P/019/62/011/001/002/010 D265/D302

on the value of the negative damping coefficient $\boldsymbol{\epsilon}$ defined by

$$\varepsilon = \frac{2}{Q} + \frac{A}{X}, \qquad X = \sqrt{\frac{L_1}{C_1}}$$
(30)

where A - negative resistance. It is shown also that there exists a critical value for this coefficient, below which the process of oscillation build-up is the consequence of beating of two modes of oscillations and for the value of the damping coefficient higher oscillations and for the value of the damping coefficient higher than its critical value one mode is building-up and beating appears in the non-linear range only. Results of this analysis are verified in the non-linear range only. Results of this analysis are verified experimentally and illustrated by photographs. According to the experimentally and illustrated by photographs. According to the experimentally and illustrated by photographs. According to the author the theory of generators with two degrees of freedom due to author the theory of generators with two degrees of freedom due to author the theory of generators with two degrees of freedom due to author the theory of generators with two degrees of freedom due to author the theory of generators of the freedom due to author the theory of generators of high quality limited application in practice for the generators of high quality limited application in practice for the generators of high quality limited application in practice for the generators of high quality limited application. There are 18 figures and 9 references: 7 Soviet-bloc and 2 factor. There are 18 figures and 9 references: 7 Soviet-bloc and 2 factor. There are 18 figures and 9 references: 7 Soviet-bloc and 2 factor. There are 18 figures and 9 references: 7 Soviet-bloc and 2 factor. There are 18 figures and 9 references: 7 Soviet-bloc and 2 factor. There are 18 figures and 9 references: 7 Soviet-bloc and 2 factor. There are 18 figures and 9 references: 7 Soviet-bloc and 2 factor. There are 18 figures and 9 references: 7 Soviet-bloc and 2 factor. There are 18 figures and 9 references: 7 Soviet-bloc and 2 factor. There are 18 figures are 2 factor. There are 2 factor. There are 3 factor. There are 3 factor. There are 3 factor. There are 4

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AUTHOR:

Hahn, S.

TITLE:

Theory of generators with two degrees of freedom

PERIODICAL: Archiwum elektrotechniki, v. 11, no. 1, 1962, 77-110

TEXT: In this article the author provides the theoretical analysis of the dynamic phenomena occurring during the oscillation build-up period of generators with two degrees of freedom. Farameters of the steady state have been determined by solving the characteristic equation

 $A_4 z^4 + A_3 z^3 + A_2 z^2 + A_1 z + A_0 = 0$ (2)

by a graphical method. For the non-linear range both the graphical and analytical methods were made use of. The phenomenon of dynamical oscillation hysteresis is dealt with in detail and explained analytically and graphically. It is shown that in a generator with coupled circuits excited by means of negative resistance (Fig. 1) the oscillation build-up processes differ fundamentally depending

Card 1/3

HAHN, Stefan Dynamical phenomena in generators with two degrees of freedom. Proceed vibr probl 3 no.2:171-191 62. 1. Department of Vibrations, Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw.